

**UNITED STATES PATENT AND TRADEMARK OFFICE**

**PATENT NO. : US 6,988,125 B2**  
**DATED : JANUARY 17, 2006**  
**INVENTOR : ELMOOTAZBELLAH NABIL ELNOZAHY, MICHAEL DAVID KISTLER**  
**ASSIGNEE : INTERNATIONAL BUSINESS MACHINES CORPORATION**

**REQUEST FOR CERTIFICATE OF CORRECTION  
UNDER 37 CFR 1.322**

ATTENTION: CERTIFICATE OF CORRECTIONS BRANCH  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

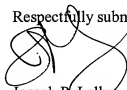
Dear Sir:

This paper is submitted in connection with the above referenced patent. The Patent contains one or more errors and, accordingly, a Certificate of Correction is respectfully requested. Attachment A to this document shows the error(s) and requested corrections. In addition, a proposed Certificate of Correction is attached.

Assignee believes that, because the errors corrected herein were incurred through the fault of the Patent and Trademark Office, no fee is required under the provisions of 37 CFR 1.322. If, however, a fee is required, the Commissioner is authorized to charge any such fee to Lally & Lally, L.L.P. Deposit Account No. 50-0335/IBM.5243.

If any questions arise during the processing of this request, please do not hesitate to contact the undersigned at the number listed below.

Respectfully submitted,



Joseph P. Lally  
Reg. No. 38,947  
ATTORNEY FOR ASSIGNEE

PLEASE FORWARD THE CERTIFICATE  
TO ASSIGNEE AT:

IBM CORPORATION, IP LAW DEPT.  
11400 Burnet Road  
Austin, Texas 78758

JUNE 21, 2006

## ATTACHMENT A

### Claim 1:

1. A method of responding to a client request for information from a ~~sever~~ server in a data processing network, comprising:

opening a client-server connection between the client and the server;

responsive to receiving the client request and determining that at least a portion of the information is not in a cache of the server, sending a storage request to a network attached storage device;

responsive to the storage request, generating a packet containing at least a portion of the information; and

sending the generated packet simultaneously to the client and to the server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a client-server protocol stack associated with the client-server connection in the generated packet.

### Claim 7:

7. The method of claim 1, further comprising updating the ~~sever~~ server cache with the portion of the information contained in the generated packet responsive to the server receiving the generated packet.

### Claim 8:

8. The method of claim 1, further comprising, responsive to a subsequent client request for the information, generating a second storage request if the ~~sever~~ server failed to receive the generated packet.

### Claim 9:

9. A data processing network, comprising:

a ~~sever~~ server configured to receive from a client connected to the network, via a client-server connection, a request for information;

a network attached storage device connected to the server via a local area network;

server code for determining if the information is available in a local cache of the server;

server code for generating a storage request responsive to determining that the information is not locally available;

storage device code for generating a packet containing at least a portion of the information responsive to the storage request; and

storage device code for sending the packet simultaneously to the client and to the server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a protocol stack associated with the ~~client-server~~ client-server connection in the packet.

Claim 12:

12. The data processing network of claim 10, wherein the packet is multicast to the server and to a gateway to which ~~to the~~ the client is connected via a wide area network.

Claim 14:

14. The data processing network of claim 9, wherein generating the packet further includes using an IP address of the ~~server~~ server as a source address for the packet.

Claim 15:

15. The data processing network of claim 11, further comprising ~~server~~ server code for updating the local cache of the server with ~~to the~~ the portion of the information in the packet responsive to the server receiving the packet.

Claim 17:

17. A computer program product comprising computer executable instructions, stored on a computer readable medium, for generating a packet responsive to a client request for information, the computer executable instructions comprising:

instructions for determining, by a server, that the information is not available in a ~~server~~ server cache;

instructions for sending a storage request to a network attached storage device;

instructions for retrieving the information from a network attached storage device disk and generating a packet containing at least a portion of the information; and

instructions for sending the packet simultaneously to the client and the server;

wherein the storage request includes protocol information corresponding to client-server connection;

wherein the instructions for generating the packet include instructions for using the information to replicate a client-server protocol stack in the generated packet.

Claim 19:

19. The computer program product of claim 17, further comprising instructions for updating the server cache with the portion of the information contained in the packet responsive to the server receiving the packet.

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PATENT NO. : 6,988,125 B2  
 APPLICATION NO.: 09/915435  
 ISSUE DATE : JANUARY 17, 2006  
 INVENTOR(S) : ELMOOTAZBELLAH NABIL ELNOZAHY, MICHAEL DAVID KISTLER

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

### Claims:

1. A method of responding to a client request for information from a ~~sever~~ server in a data processing network, comprising:

opening a client-server connection between the client and the server;

responsive to receiving the client request and determining that at least a portion of the information is not in a cache of the server, sending a storage request to a network attached storage device;

responsive to the storage request, generating a packet containing at least a portion of the information; and

sending the generated packet simultaneously to the client and to the server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a client-server protocol stack associated with the client-server connection in the generated packet.

7. The method of claim 1, further comprising updating the ~~sever~~ server cache with the portion of the information contained in the generated packet responsive to the server receiving the generated packet.

8. The method of claim 1, further comprising, responsive to a subsequent client request for the information, generating a second storage request if the ~~sever~~ server failed to receive the generated packet.

### MAILING ADDRESS OF SENDER (Please do not use customer number below):

International Business Machines Corporation  
 Intellectual Property Law Department - 4054  
 11400 Burnet Road, Building 3  
 Austin, Texas 78758

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

9. A data processing network, comprising:

a ~~server~~ server configured to receive from a client connected to the network, via a client-server connection, a request for information;

a network attached storage device connected to the server via a local area network;

server code for determining if the information is available in a local cache of the server;

server code for generating a storage request responsive to determining that the information is not locally available;

storage device code for generating a packet containing at least a portion of the information responsive to the storage request; and

storage device code for sending the packet simultaneously to the client and to the server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a protocol stack associated with the ~~client-server~~ client-server connection in the packet.

12. The data processing network of claim 10, wherein the packet is multicast to the server and to a gateway to which ~~the~~ the client is connected via a wide area network.

14. The data processing network of claim 9, wherein generating the packet further includes using an IP address of the ~~server~~ server as a source address for the packet.

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It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

15. The data processing network of claim 11, further comprising ~~server~~ server code for updating the local cache of the server with ~~to the~~ the portion of the information in the packet responsive to the server receiving the packet.

17. A computer program product comprising computer executable instructions, stored on a computer readable medium, for generating a packet responsive to a client request for information, the computer executable instructions comprising:

instructions for determining, by a server, that the information is not available in a ~~server~~ server cache;

instructions for sending a storage request to a network attached storage device;

instructions for retrieving the information from a network attached storage device disk and generating a packet containing at least a portion of the information; and

instructions for sending the packet simultaneously to the client and the server;

wherein the storage request includes protocol information corresponding to client-server connection;

wherein the instructions for generating the packet include instructions for using the information to replicate a client-server protocol stack in the generated packet.

19. The computer program product of claim 17, further comprising instructions for updating the server cache with the portion of the information contained in the packet responsive to the ~~server~~ server receiving the packet.

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